PUGET SOUND VITAL SIGNS

VITAL SIGN ONSITE SEWAGE SYSTEMS

This Vital Sign helps us track progress on management of onsite sewage systems and the protection measures put in place to protect nearshore areas. Onsite sewage systems, commonly known as septic systems, are widely used around Puget Sound to treat sewage from properties not served by municipal sewers. Leakage of sewage from septic systems into Puget Sound water causes poor water quality and can lead to public health risks.

VITAL SIGN > INDICATOR Onsite Sewage Systems Inventory, inspection, and repair of onsite sewage systems Percent of unsewered shoreline that has inspection program Progress STATUS BELOW 2020 TARGET OR NO DATA DATA

Reporting Lead

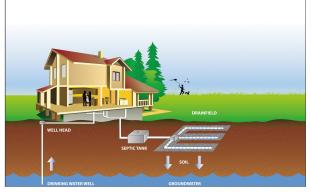
Mary Ramirez and Nathalie Hamel, Puget Sound Partnership nathalie.hamel@psp.wa.gov

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Key Messages

- When septic systems malfunction, improperly treated sewage can surface or move through the soil to groundwater, streams, lakes, rivers, and Puget Sound. Malfunctioning septic systems are a potentially significant contributor of harmful bacteria in freshwater and marine waterways.
- The bacteria can accumulate in shellfish to the point that they may no longer be safe to eat and cause shellfish beds to close to commercial and recreational harvest (see the shellfish beds indicator). Harmful bacteria from septic systems also pose a health risk to swimmers (see the beaches indicator).
- All owners are responsible for taking care of their septic systems. The twelve
 Puget Sound local health jurisdictions oversee management plans to help
 owners maintain their systems, and the Department of Health provides
 additional technical and financial support.
- Marine Recovery Areas, defined by state statute, are designated where septic
 systems are associated with the degradation of shellfish growing areas (see the
 Shellfish Beds Vital Sign), marine waters listed as polluted for low dissolved
 oxygen levels or fecal coliform, or marine waters where nitrogen has been
 identified as a contaminant of concern (see the Marine Water Quality Vital Sign).



Septic system for a home (WA Department of Health).

- In Marine Recovery Areas and other designated areas, local health jurisdictions engage more directly with owners to help ensure systems are inventoried, inspected, and maintained to reduce public health risks.
- Since 2011, local health jurisdictions have inventoried more than 79,000 septic systems, 93 percent of which are fully documented. Additionally, more than 40,000 systems (51 percent of the inventory) are up-to-date with inspections. In part due to addressing failing septic systems, 12,059 acres of shellfish beds were reopened to harvest since 2007.

Strategies, Actions, And Effectiveness

- Management of septic systems is addressed in the Shellfish Implementation Strategy
- Actions proposed in the Action Agenda that advance this Vital Sign (let us know if we missed any!):
 - Enhanced OSS in Clallam County's MRA Phase 2
 - Enhanced OSS in Clallam County's MRA Phase 3
 - Financing Options for Healthy Onsite Sewage Systems (OSS)
 - Jefferson County On-site Septic System Repair/Abatement Program
 - Penn Cove Water Quality Improvement -Coupeville Sewer Extension
 - Thurston Shellfish Growing Areas OSS Pollution Prevention

Background Documents

- · Leadership Council Resolution 2011-16, Adopting a 2020 ecosystem recovery target for on-site sewage systems
- Wastewater and On-site Sewage Systems Targets Technical Memorandum

Other Resources

Articles related to sewage pollution in the Encyclopedia of Puget Sound

Contributing Partners

